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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,029	05/30/2006	Han-Jung Lee	291086US3PCT	6000
OBLON SPIV	7590 12/12/200 AK, MCCLELLAND	EXAMINER		
1940 DUKE S'	FREET	KASTLER, SCOTT R		
ALEXANDRL	A, VA 22314		ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			12/12/2008	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

# Office Action Summary

Application No.	Applicant(s)		
10/581,029	LEE, HAN-JUNG		
Examiner	Art Unit		
Scott Kastler	1793		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  - after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

	reply received by the Office later than three months a ned patent term adjustment. See 37 CFR 1.704(b).	fter the mailing date of this communication, even if timely filed, may reduce any
Status		
1)⊠	Responsive to communication(s) file	d on <u>20 October 2008</u> .
2a)□	This action is FINAL.	b)⊠ This action is non-final.
3)	Since this application is in condition	for allowance except for formal matters, prosecution as to the merits is
	closed in accordance with the practic	ce under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.
Disposit	tion of Claims	
4)⊠	Claim(s) 1-10 is/are pending in the a	pplication.
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- 4a) Of the above claim(s) 1 and 2 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 3-10 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some \* c) 

    None of:
    - Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
    - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* See the attached detailed Office action for a list of the certified copies not received.

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- 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SE/08) Paper No(s)/Mail Date 5/30/2006.
- 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.
- Notice of Informal Patent Application 6) Other:
- Office Action Summary

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#### DETAILED ACTION

### Election/Restrictions

Applicant's election of claims 3-10 in the reply filed on 10/20/2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 1 and 2 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on 10/20/2008.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 3-5 and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Aoyama et al. Aoyama et al teaches a furnace (2) formed of refractory material with an electromagnetic agitator (an electric furnace, see paragraph [0047] since the electric furnace is capable of providing agitation to the melt thereby meeting this requirement in an apparatus claim, see MPEP 2114), a cooler (3) for cooling melt discharged from the furnace, a guide member (31) positioned at an angle for directing the melt to a storing part (1) with a temperature controller

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(25) within the furnace and stirring or circulation means for circulating a slurry within the storing part (see paragraph [0035] for example) thereby showing all aspects of the above claims.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winter et al in view of Aoyama et al. Winter et al teaches a semi-solid metal slurry apparatus including a cooler part (10), a guide member (mold wall 11, which meets this requirement since it's vertical position also constitutes an "angle" (90 degrees)) and storing part (12) with circulation means meeting all aspects of the above claims except any specific furnace structure from which the metal melt is delivered (the furnace is represented only by reference (60) to any conventional design). As applied above, Aoyama et al teaches that it was known in the art at the time the invention was made to employ furnaces meeting the instant claim requirements for making semi-solid metal slurries. Because Winter et al requires some, unspecified type of metal making furnace, Motivation to employ the known semi-solid metal making slurry furnace of Aoyama et al as the required, but unspecified semi-solid metal making slurry furnace of Winter et al, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Scott Kastler/ Primary Examiner, Art Unit 1793

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